

ABSTRACT

A media storage device is provided. The device comprises different configurations of a luminescent layer comprising a luminescent material capable of emitting light while being bombarded by a beam from a beam transmitter, a detector
5 for detecting the light emitted from the luminescent layer, and a phase-change layer located proximate the luminescent layer. The phase-change layer is able to transform from a first phase to a second phase. Light emitted from the luminescent layer and received by the detector materially differs when the phase-change layer transforms from the first phase to the second phase.